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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/751,512	01/06/2004	Tatsuya Ito	113112.01	3327
OLIFF & BER	7590 03/22/200 RIDGE, PLC	EXAMINER		
P.O. Box 19928			MRUK, GEOFFREY S	
Alexandra, VA 22320			ART UNIT	PAPER NUMBER
			2853	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)	
Office Action Summary		10/751,512	ITO ET AL.	
		Examiner	Art Unit	
		Geoffrey Mruk	2853	
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the co	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
 Responsive to communication(s) filed on 12 January 2007. This action is FINAL. 2b) ☐ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. 				
Dispositi	on of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicatio	Claim(s) 41-44 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 41-44 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examiner	vn from consideration.		
 10) ☐ The drawing(s) filed on 06 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Priority u	nder 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 10/186,427. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa	te	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12 January 2007 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 41-44 are rejected under 35 U.S.C. 102(e) as being anticipated by Shigemura (US 6,667,795 B2).

With respect to claim 41, Shigemura discloses an apparatus (Fig. 14) for manufacturing a color filter (Column 1, lines 15-24), comprising: a plurality of nozzles (Fig. 16, elements 108) for ejecting a filter material in droplets (Column 1, lines 26-33);

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and a plurality of ejection heads (Fig. 16, elements 120a, 120b, 121a, 121b, 122a, 122b) which are arranged perpendicular to a head scan direction (Fig. 13, element 612) arranged on a print head (Fig. 16, element 606), each ejection head having the plurality of nozzles (Fig. 16, elements 108) linearly arranged with a constant layout pitch of (D) (Fig. 23, Nozzle Pitch), the plurality of ejection heads are arranged on the print head to form at least a single linear row of nozzles (Fig. 16, center line of nozzles, i.e. y direction) which is arranged perpendicular to the head scan direction (Fig. 13, element 612), wherein at least one of the plurality of ejection heads (Fig. 3A, elements 120, 121, 122) comprises a plurality of first nozzles (Fig. 16, elements 108) for ejecting a first type of filter material (Column 10, lines 30-36), a plurality of second nozzles (Fig. 16, elements 108) for ejecting a second type of filter material (Column 10, lines 30-36), and a plurality of third nozzles (Fig. 16, elements 108) for ejecting a third type of filter material (Column 10, lines 30-36).

With respect to claim 42, Shigemura discloses an apparatus (Fig. 14) for manufacturing an electroluminescence substrate (Column 1, lines 15-24), comprising: a plurality of nozzles (Fig. 16, elements 108) for ejecting a filter material in droplets (Column 1, lines 26-33); and a plurality of ejection heads (Fig. 16, elements 120a, 120b, 121a, 121b, 122a, 122b) which are arranged perpendicular to a head scan direction (Fig. 13, element 612) arranged on a print head (Fig. 16, element 606) each ejection head having the plurality of nozzles (Fig. 16, elements 108) linearly arranged with a constant layout pitch of (D) (Fig. 23, Nozzle Pitch), the plurality of ejection heads are arranged on the print head to form at least a single linear row of nozzles (Fig. 16, center

line of nozzles, i.e. y direction) which is arranged perpendicular to the head scan direction (Fig. 13, element 612), wherein at least one of the plurality of ejection heads (Fig. 3A, elements 120, 121, 122) comprises a plurality of first nozzles (Fig. 16, elements 108) for ejecting a first type of filter material (Column 10, lines 30-36), a plurality of second nozzles (Fig. 16, elements 108) for ejecting a second type of filter material (Column 10, lines 30-36), and a plurality of third nozzles (Fig. 16, elements 108) for ejecting a third type of filter material (Column 10, lines 30-36).

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With respect to claim 43, Shigemura discloses a method for manufacturing a color filter (Columns 7-11), comprising: scanning a substrate by moving a table (Fig. 14, elements 603, 604) and a plurality of ejection heads (Fig. 16, elements 120a, 120b, 121a, 121b, 122a, 122b) which are arranged perpendicular to a head scan direction (Fig. 13, element 612) arranged on a print head (Fig. 16, element 606); and ejecting a plurality of types of filter material (Column 10, lines 48-52) in droplets (Column 1, lines 26-33) by the plurality of ejection heads each ejection head having a plurality of nozzles (Fig. 16, elements 108) arranged with a constant layout pitch of (D) (Fig. 23, Nozzle Pitch), the plurality of ejection heads being linearly arranged to form at least a single linear row of nozzles (Fig. 16, center line of nozzles, i.e. y direction) which is arranged perpendicular to the head scan direction (Fig. 13, element 612), wherein at least one of the plurality of ejection heads (Fig. 3A, elements 120, 121, 122) comprises a plurality of first nozzles (Fig. 16, elements 108) for ejecting a first type of filter material (Column 10, lines 30-36), a plurality of second nozzles (Fig. 16, elements 108) for ejecting a second

type of filter material (Column 10, lines 30-36), and a plurality of third nozzles (Fig. 16, elements 108) for ejecting a third type of filter material (Column 10, lines 30-36).

With respect to claim 44, Shigemura discloses a method for manufacturing an electroluminescence substrate (Columns 26-27), comprising: scanning a substrate by moving a table (Fig. 14, elements 603, 604) and a plurality of ejection heads (Fig. 16, elements 120a, 120b, 121a, 121b, 122a, 122b) which are arranged perpendicular to a head scan direction (Fig. 13, element 612) arranged on a print head (Fig. 16, element 606); and ejecting a plurality of types of functional layer forming material (Column 27, lines 30-34) in droplets (Column 1, lines 26-33) by a plurality of ejection heads, having a plurality of nozzles (Fig. 16, elements 108) arranged with a constant layout pitch of (D) (Fig. 23, Nozzle Pitch), the plurality of ejection heads being linearly arranged to form at least a single linear row of nozzles (Fig. 16, center line of nozzles, i.e. y direction) which is arranged perpendicular to the head scan direction (Fig. 13, element 612), wherein at least one of the plurality of ejection heads (Fig. 3A, elements 120, 121, 122) comprises a plurality of first nozzles (Fig. 16, elements 108) for ejecting a first type of functional layer forming material (Column 10, lines 30-36), a plurality of second nozzles (Fig. 16, elements 108) for electing a second type of functional layer forming material (Column 10, lines 30-36), and a plurality of third nozzles (Fig. 16, elements 108) for electing a third type of functional layer forming material (Column 10, lines 30-36).

Response to Arguments

Applicant's arguments filed 12 January 2007 have been fully considered but they are not persuasive. The applicant's argument that "Applicants have amended independent claims 41-43 to recite the features of "wherein at least one of the plurality of ejection heads comprises a plurality of first nozzles for ejecting a first type of filter material, a plurality of second nozzles for ejecting a second type of filter material, and a plurality of third nozzles for ejecting a third type of filter material." Claim 44 has also been amended to recite the features of "wherein at least one of the plurality of ejection heads comprises a plurality of first nozzles for ejecting a first type of functional layer forming material, a plurality of second nozzles for ejecting a second type of functional layer forming material, and a plurality of third nozzles for ejecting a third type of functional layer forming material." Applicants respectfully submit that Shigemura does not teach these.", is not persuasive.

However, as stated in the instant rejection, Shigemura discloses an ink jet head unit (Fig. 13, element 606) where "FIG. 3A illustrates the step of forming partitions 12 having ink-repelling properties on the light-transmitting substrate 1, and applying hardening ink 14 from ink jet heads (120, 121, and 122)" (Column 10, lines 10-13) and "The hardening ink 14 used with the present invention is an ink which hardens due to light irradiation, heat application, or both. Both liquid inks and solid inks can be used for the hardening ink 14, and also both pigments and dyes can be used. The ink 14 contains resin components which harden from the light irradiation, heat application, or

both, coloring material, organic solvents, and water" (Column 10, lines 30-36).

Therefore, Shigemura meets the claimed limitations.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is 571 272-2810. The examiner can normally be reached on 7am - 330pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GSM 3/13/2007 STEPHEN MEIEH SUPFRVISORY PATENT EXAMINER